OBLON, SPIVAK, ET AL
DOCKET #: 241952US6
INV: Gen ICHIMURA
SHEET 1 OF 9

SOUP1078

FIG. 1

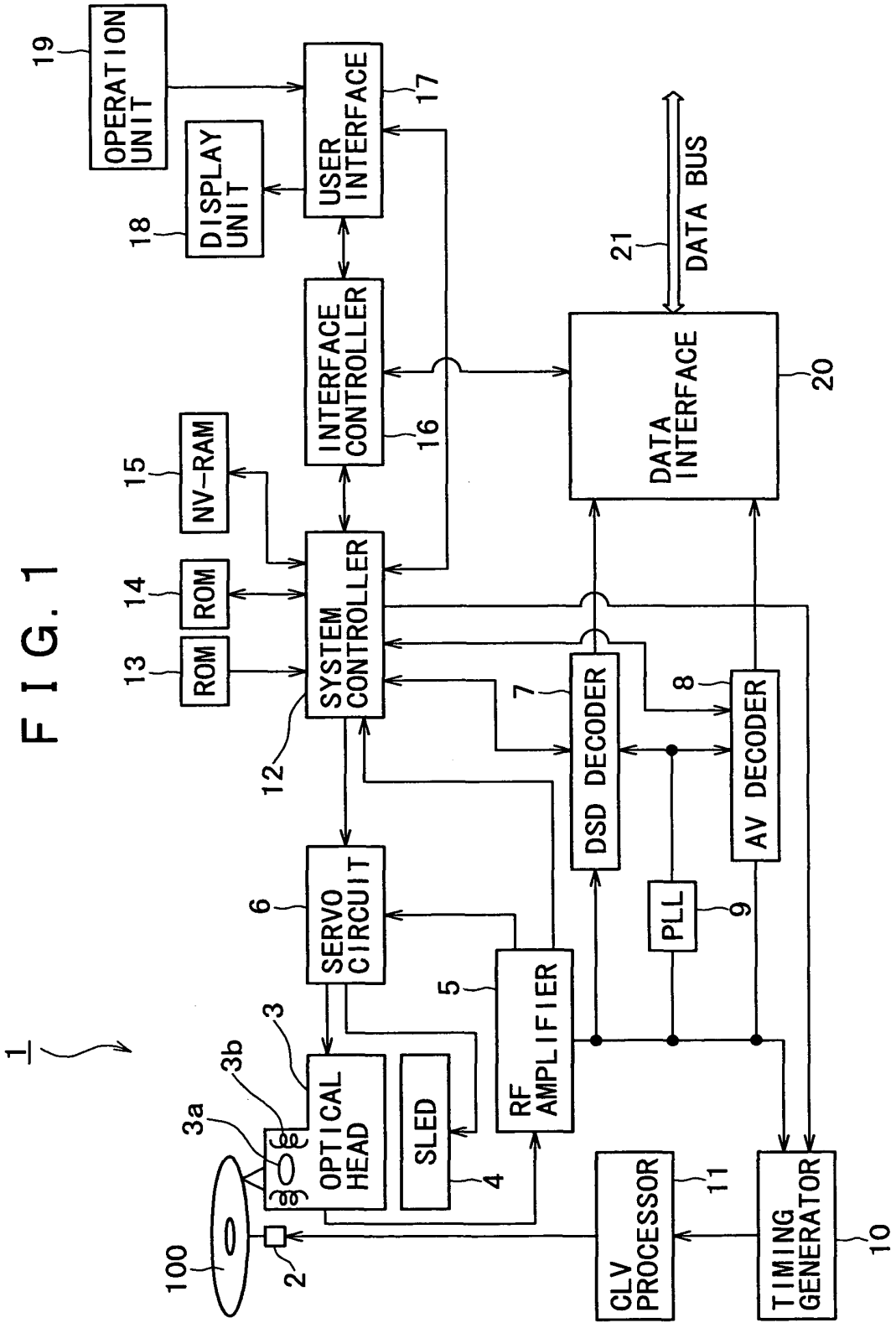


FIG. 2

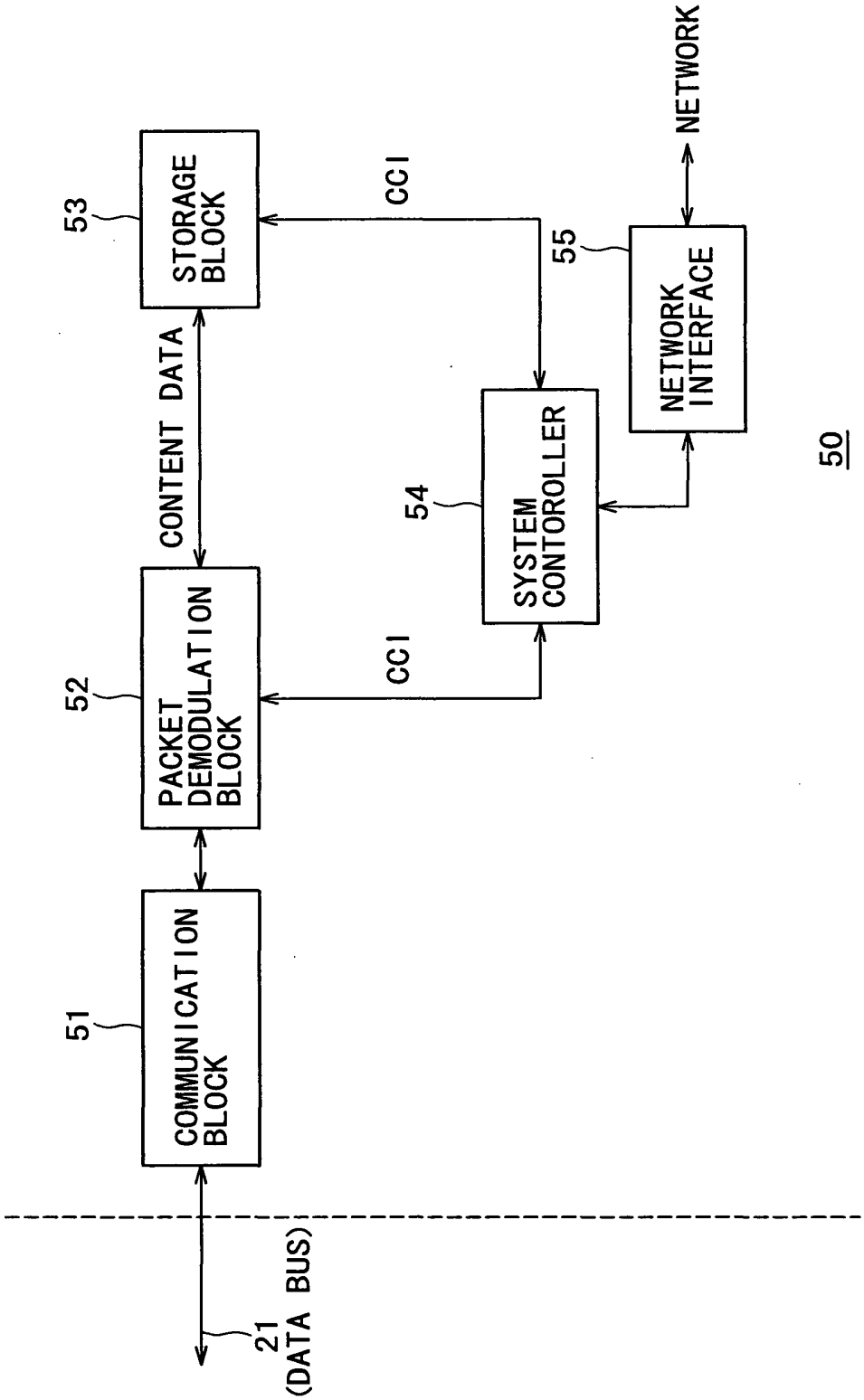

NETWORK
53
STORAGE BLOCK
CCI
55
NETWORK INTERFACE
CONTENT DATA
54
SYSTEM CONTOROLLER
50
52
PACKET DEMODULATION BLOCK
CCI
51
COMMUNICATION BLOCK
21
(DATA BUS)

FIG. 3

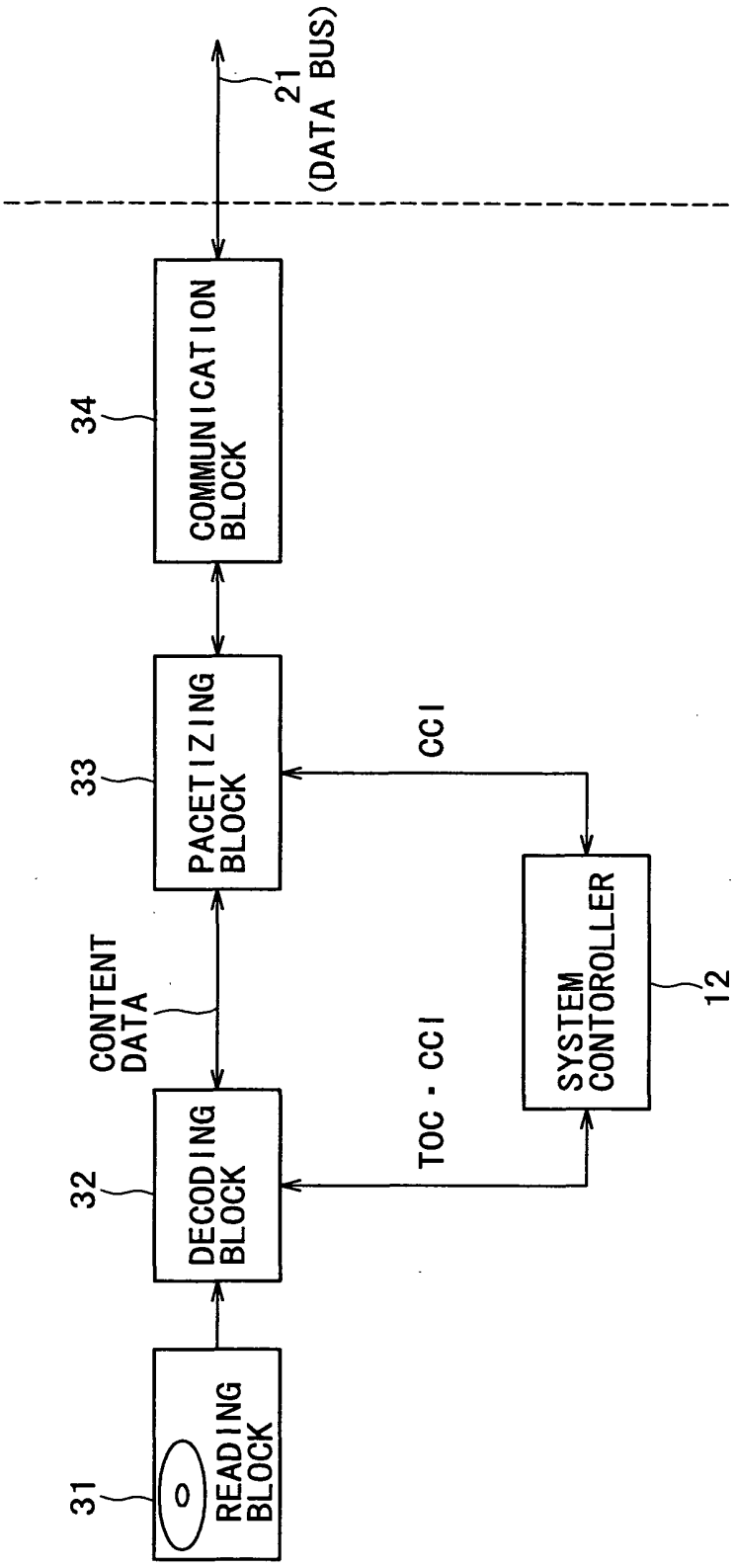

21
(DATA BUS)
34
COMMUNICATION BLOCK
33
PACETIZING BLOCK
CCI
CONTENT DATA
32
DECODING BLOCK
TOC・CCI
SYSTEM CONTOROLLER
12
31
READING BLOCK
1

FIG. 4

CCI BIT	COPY CONTROL OPERATIONS
TYPE 1	COPY FREELY
TYPE 2	COPY ONE GENERATION
TYPE 3	COPY NEVER
TYPE 4	NO COPY FOR FIXED PERIOD
TYPE 5	COPY FIXED TIMES
TYPE 6	COPY BY LICENSING

FIG. 5

TRACK ID	COPY REQUEST COUNT
ID1	2
ID2	3
ID3	1
⋮	⋮

FIG. 6

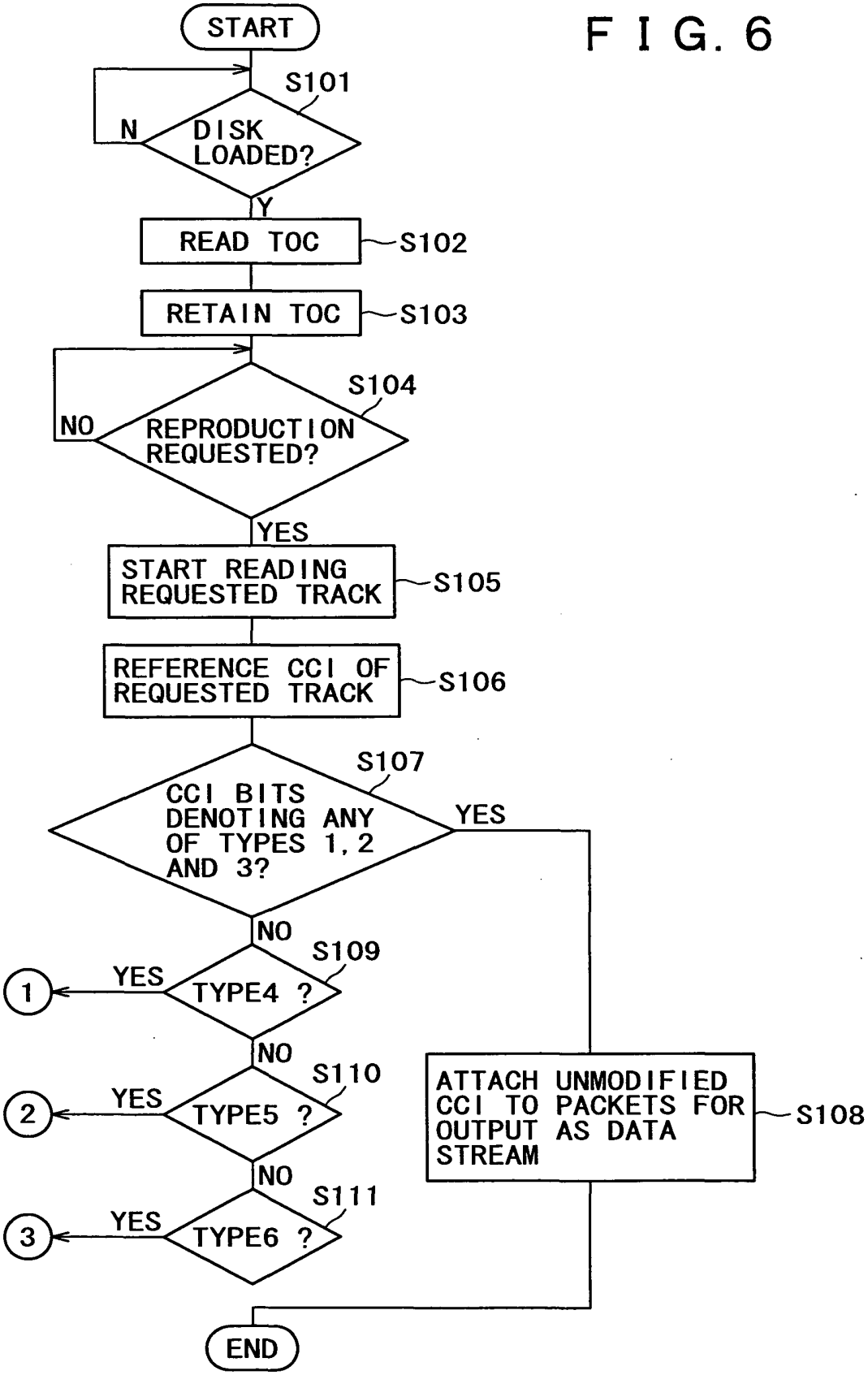

START
S101
DISK LOADED?
N
Y
READ TOC
S102
RETAIN TOC
S103
S104
REPRODUCTION REQUESTED?
NO
YES
START READING REQUESTED TRACK
S105
REFERENCE CCI OF REQUESTED TRACK
S106
S107
CCI BITS DENOTING ANY OF TYPES 1, 2 AND 3?
YES
NO
S109
TYPE4 ?
YES
1
NO
S110
TYPE5 ?
YES
2
NO
S111
TYPE6 ?
YES
3
ATTACH UNMODIFIED CCI TO PACKETS FOR OUTPUT AS DATA STREAM
S108
END

FIG. 7

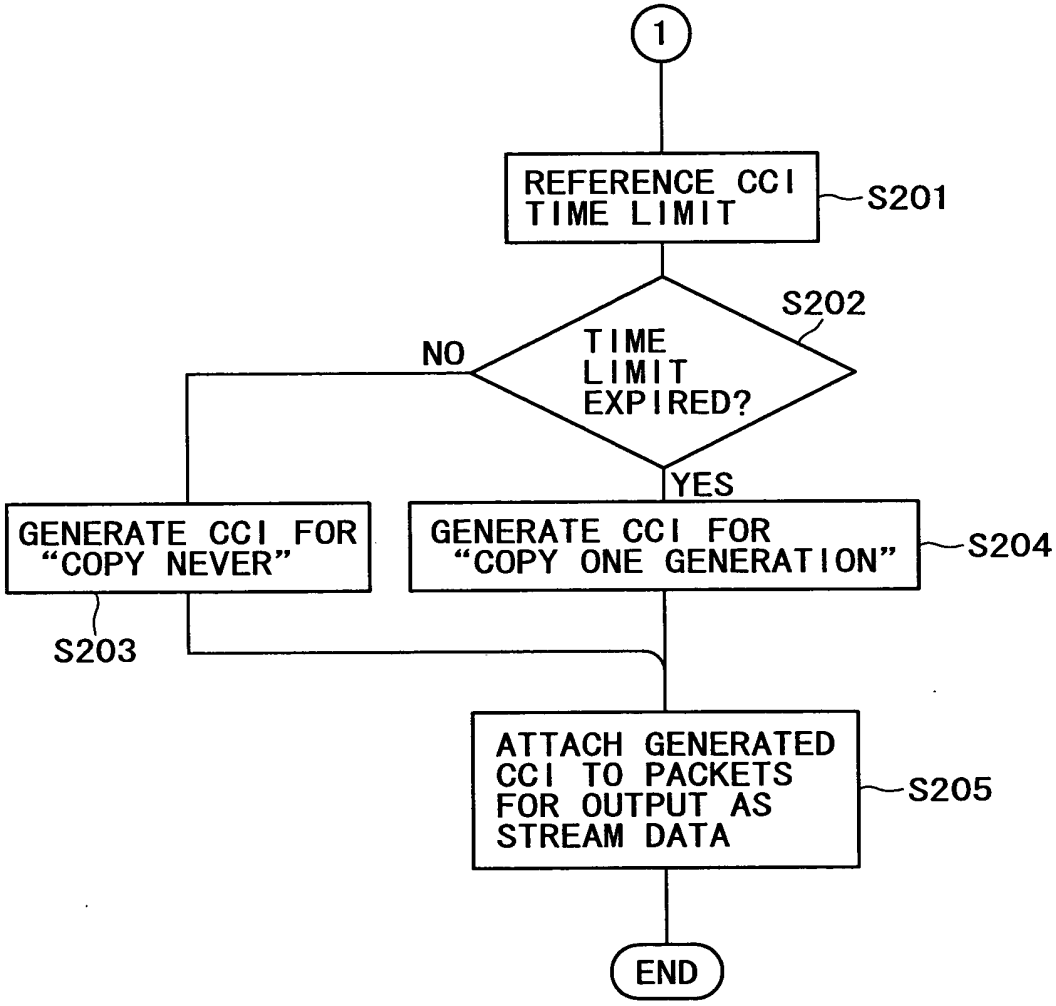

1
REFERENCE CCI TIME LIMIT
S201
S202
TIME LIMIT EXPIRED?
NO
YES
GENERATE CCI FOR "COPY NEVER"
S203
GENERATE CCI FOR "COPY ONE GENERATION"
S204
ATTACH GENERATED CCI TO PACKETS FOR OUTPUT AS STREAM DATA
S205
END

FIG. 8

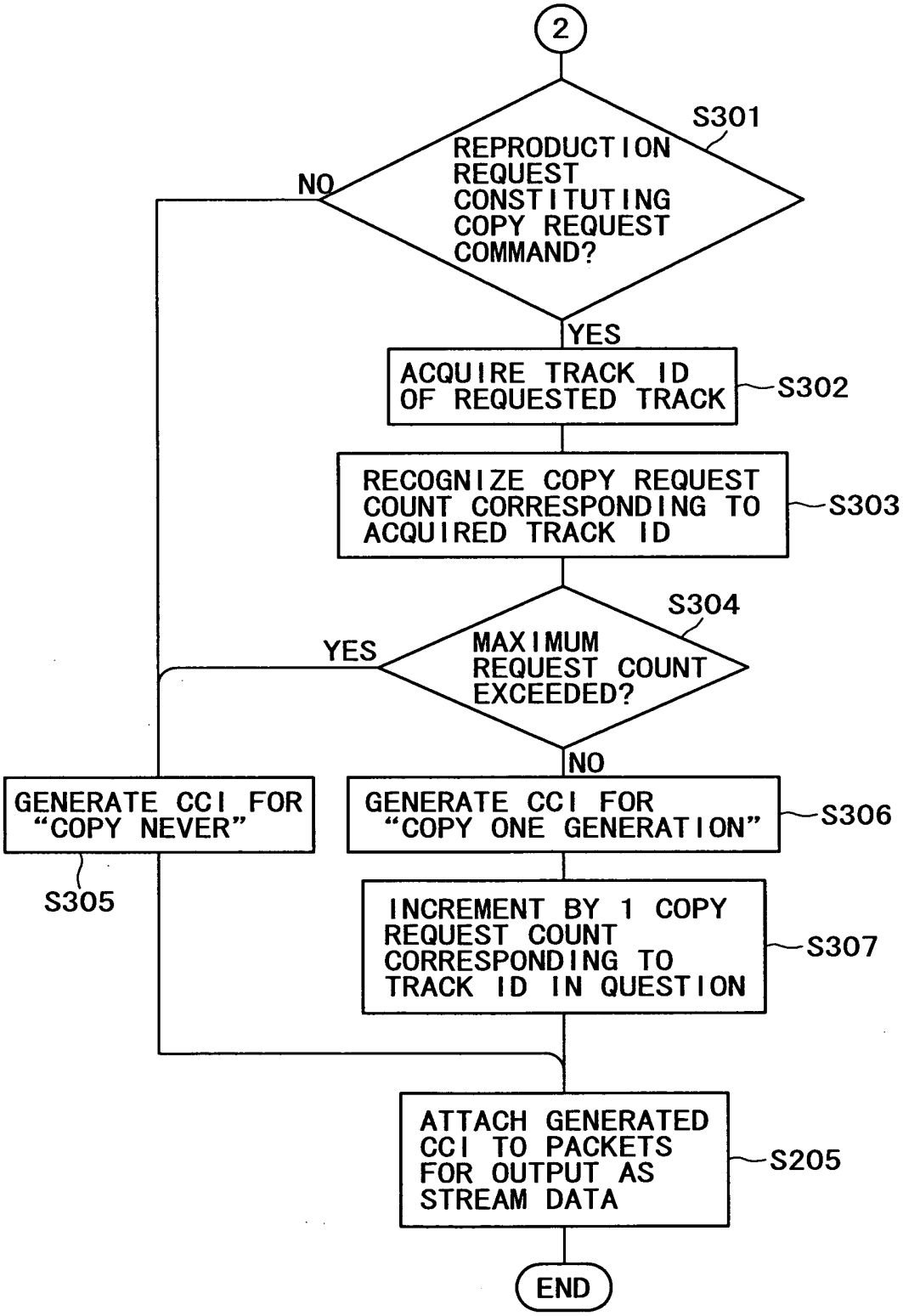
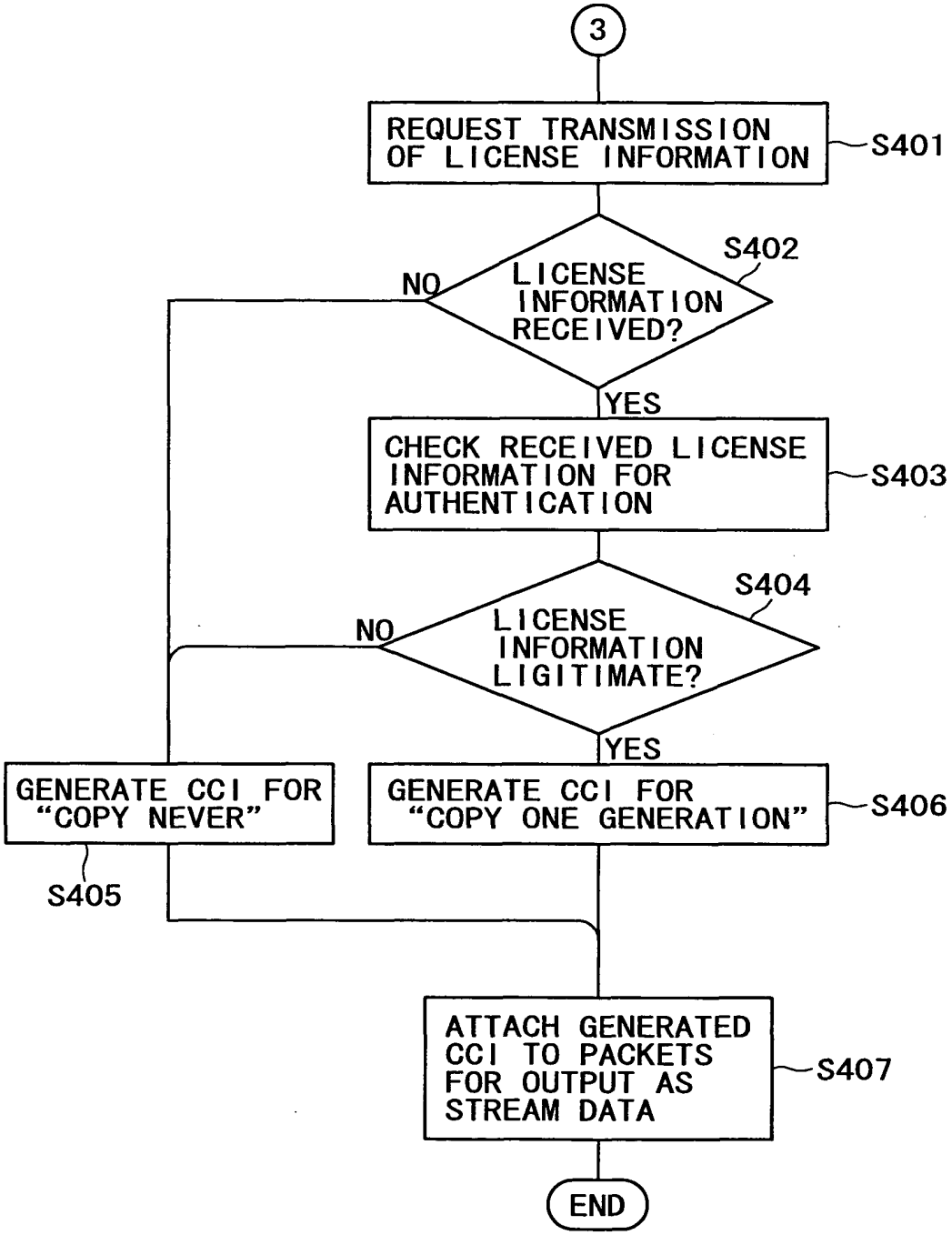

2
S301
REPRODUCTION REQUEST CONSTITUTING COPY REQUEST COMMAND?
NO
YES
ACQUIRE TRACK ID OF REQUESTED TRACK
S302
RECOGNIZE COPY REQUEST COUNT CORRESPONDING TO ACQUIRED TRACK ID
S303
S304
MAXIMUM REQUEST COUNT EXCEEDED?
YES
NO
GENERATE CCI FOR "COPY NEVER"
S305
GENERATE CCI FOR "COPY ONE GENERATION"
S306
INCREMENT BY 1 COPY REQUEST COUNT CORRESPONDING TO TRACK ID IN QUESTION
S307
ATTACH GENERATED CCI TO PACKETS FOR OUTPUT AS STREAM DATA
S205
END

FIG. 9


3
REQUEST TRANSMISSION OF LICENSE INFORMATION
S401
S402
NO
LICENSE INFORMATION RECEIVED?
YES
CHECK RECEIVED LICENSE INFORMATION FOR AUTHENTICATION
S403
S404
NO
LICENSE INFORMATION LIGITIMATE?
YES
GENERATE CCI FOR "COPY NEVER"
S405
GENERATE CCI FOR "COPY ONE GENERATION"
S406
ATTACH GENERATED CCI TO PACKETS FOR OUTPUT AS STREAM DATA
S407
END